## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **LISTING OF CLAIMS:**

	[0030]1. (Currently Amended) In a cellular radio network
•	having a plurality of base stations and a mobile switching center, a method for receiving
	and transmitting signals, the method comprising:
	[0031] receiving a plurality of radio signals at different frequencies using a
ı	single radio receiver at said base station;
	[0032] continuously scanning said incoming signals and saving said
'	signals to a buffer with a first processor;
	[0033]reading, processing and time-multiplexing said buffered signals with
'	a second processor;
	[0034]transmitting said time-multiplexed radio signal via a single physical
•	link to a mobile switching center;
	[0035]demultiplexing said time-multiplexed radio signal into independent
•	radio signals corresponding to said incoming signals at said mobile switching center
	with a third processor;
	[0036] processing said independent radio signals with said third processor;
•	and
	[0037]routing said independent radio signals to the proper end users.
	[0038]2. (Currently Amended) The method defined in claim 1,
•	wherein said cellular radio network comprises a Frequency Division Multiple Access
	network.
	[0039]3. (Currently Amended) The method defined in claim 1,
•	wherein said cellular radio network comprises a Time Division Multiple Access network.
	[0040]4. (Currently Amended) The method defined in claim 1,
	wherein said cellular radio network comprises a Global System for Mobile
	Communications.
	[0041]5. (Currently Amended) The method defined in claim 1,
•	wherein said cellular radio network comprises a Code Division Multiple Access network.
	[0042]6. (Currently Amended) A system for receiving and
•	transmitting cellular radio signals in a cellular radio network, the system comprising:

	[0043]a radio receiver at a base station for receiving a plurality of radio
•	signals at different frequencies;
١	[0044]a first processor for continuously scanning said incoming signals
•	and saving said signals to a buffer;
١	[0045]a second processor for reading, processing and time-multiplexing
•	said buffered signals;
	[0046]means for transmitting said time-multiplexed radio signal via a
1	single physical link to a mobile switching center;
I	[0047]a third processor for demultiplexing said time-multiplexed radio
'	signal into independent radio signals corresponding to said incoming signals at said
	mobile switching center and processing said independent radio signals; and
١	[0048]means for routing said independent radio signals to the proper end
	users.
١	[0049]7. (Currently Amended) The system defined in claim 6,
	wherein said cellular radio network comprises a Frequency Division Multiple Access
	network.
	[0050] 8. (Currently Amended) The system defined in claim 6,
	wherein said cellular radio network comprises a Time Division Multiple Access network.
I	[0051] 9. (Currently Amended) The system defined in claim 6,
•	wherein said cellular radio network comprises a Global System for Mobile
	Communications network.
	[0052]10. (Currently Amended) The system defined in claim 6,
•	wherein said cellular radio network comprises a Code Division Multiple Access network.